

1/18

Embodiment	Wavelength λ	Polarization Φ	Propagation direction (θ, ϕ)	Diffraction order (m,n)	Profile	Seed model	Measurement mode
1	Range	Fixed	Fixed	Fixed	Symmetric	Yes	Transmissive
2	Range	Fixed	Fixed	Fixed	Symmetric	No	Transmissive
3	Fixed	Fixed	Range	Fixed	Symmetric	Yes	Transmissive
4	Fixed	Fixed	Range	Fixed	Symmetric	No	Transmissive
5	Range	Fixed	Fixed	Multiple	Symmetric	Yes	Transmissive
6	Range	Fixed	Fixed	Multiple	Symmetric	No	Transmissive
7	Fixed	Fixed	Range	Multiple	Symmetric	Yes	Transmissive
8	Fixed	Fixed	Range	Multiple	Symmetric	No	Transmissive
9	Range	Fixed	Fixed	Multiple	Asymmetric	Yes	Transmissive
10	Range	Fixed	Fixed	Multiple	Asymmetric	No	Transmissive
11	Fixed	Fixed	Range	Multiple	Asymmetric	Yes	Transmissive
12	Fixed	Fixed	Range	Multiple	Asymmetric	No	Transmissive
13	Range	Fixed	Range	Multiple	Symmetric	Yes	Transmissive
14	Range	Fixed	Range	Multiple	Symmetric	No	Transmissive
15	Range	Fixed	Range	Multiple	Asymmetric	Yes	Transmissive
16	Range	Fixed	Range	Multiple	Asymmetric	No	Transmissive
17	Range	Fixed	Fixed	Fixed	Symmetric	Yes	Reflective
18	Range	Fixed	Fixed	Fixed	Symmetric	No	Reflective
19	Fixed	Fixed	Range	Fixed	Symmetric	Yes	Reflective
20	Fixed	Fixed	Range	Fixed	Symmetric	No	Reflective
21	Range	Fixed	Fixed	Multiple	Symmetric	Yes	Reflective
22	Range	Fixed	Fixed	Multiple	Symmetric	No	Reflective
23	Fixed	Fixed	Range	Multiple	Symmetric	Yes	Reflective
24	Fixed	Fixed	Range	Multiple	Symmetric	No	Reflective
25	Range	Fixed	Fixed	Multiple	Asymmetric	Yes	Reflective
26	Range	Fixed	Fixed	Multiple	Asymmetric	No	Reflective
27	Fixed	Fixed	Range	Multiple	Asymmetric	Yes	Reflective
28	Fixed	Fixed	Range	Multiple	Asymmetric	No	Reflective
29	Range	Fixed	Range	Multiple	Symmetric	Yes	Reflective
30	Range	Fixed	Range	Multiple	Symmetric	No	Reflective
31	Range	Fixed	Range	Multiple	Asymmetric	Yes	Reflective
32	Range	Fixed	Range	Multiple	Asymmetric	No	Reflective

TABLE 1

BEST AVAILABLE COPY

2/18

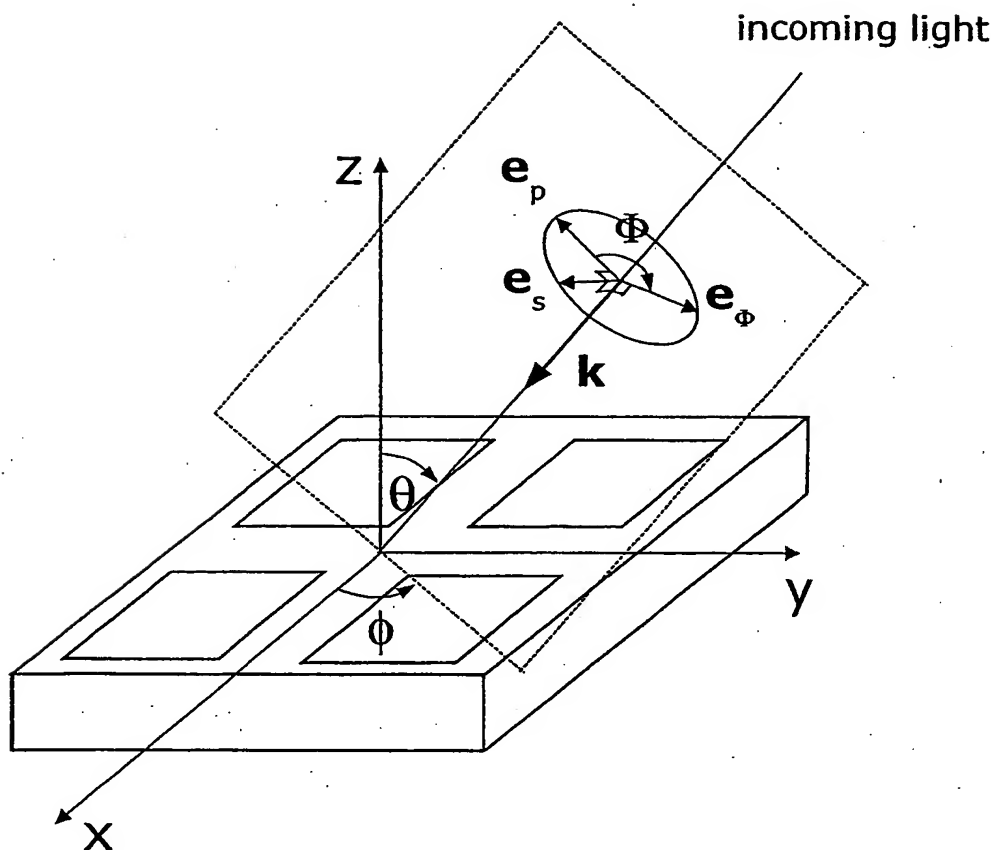
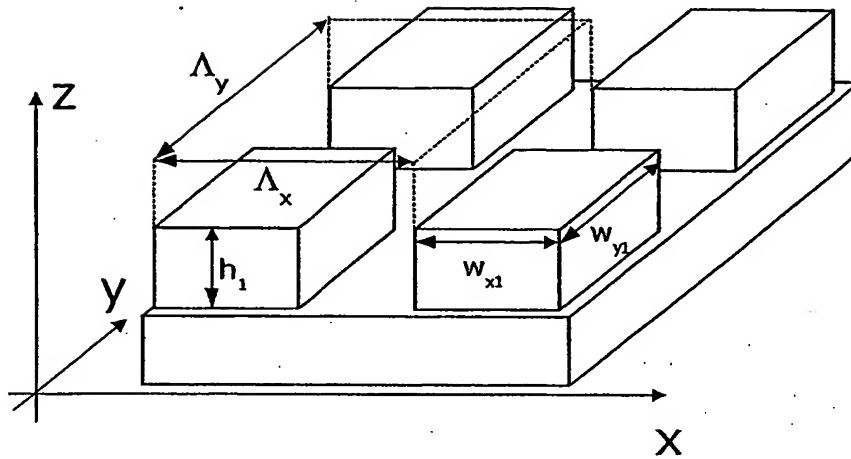


Fig. 1

3/18

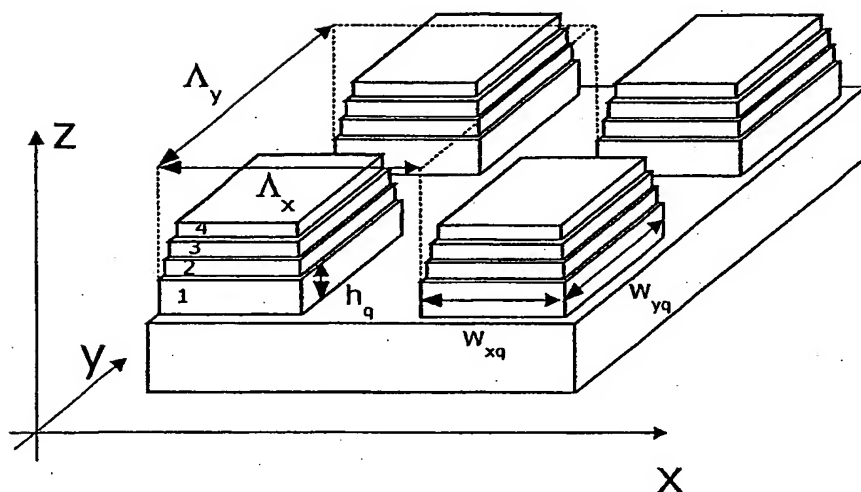


Layer q	Height h_q (nm)	Width		Offset		Material
		w_{qx} (nm)	w_{qy} (nm)	x_q (nm)	y_q (nm)	
Substrate	infinity	n/a	n/a	n/a	n/a	InP
1	290,00	180,00	125,00	0,00	0,00	Photo resist
Superstrate	infinity	n/a	n/a	n/a	n/a	Vacuum

Periodicity: $\Lambda_x = 300$ nm $\Lambda_y = 250$ nm

Fig. 2

4/18



Layer q	Height h_q (nm)	Width		Offset		Material
		w_{qx} (nm)	w_{qy} (nm)	x_q (nm)	y_q (nm)	
Substrate	infinity	n/a	n/a	n/a	n/a	InP
1	200,00	180,00	125,00	0,00	0,00	Photo resist
2	30,00	179,79	122,82	0,00	0,00	Photo resist
3	30,00	176,61	120,25	0,00	0,00	Photo resist
4	30,00	167,01	117,65	0,00	0,00	Photo resist
superstrate	infinity	n/a	n/a	n/a	n/a	Vacuum

Periodicity: $\Lambda_x = 300$ nm $\Lambda_y = 250$ nm

Fig. 3

5/18

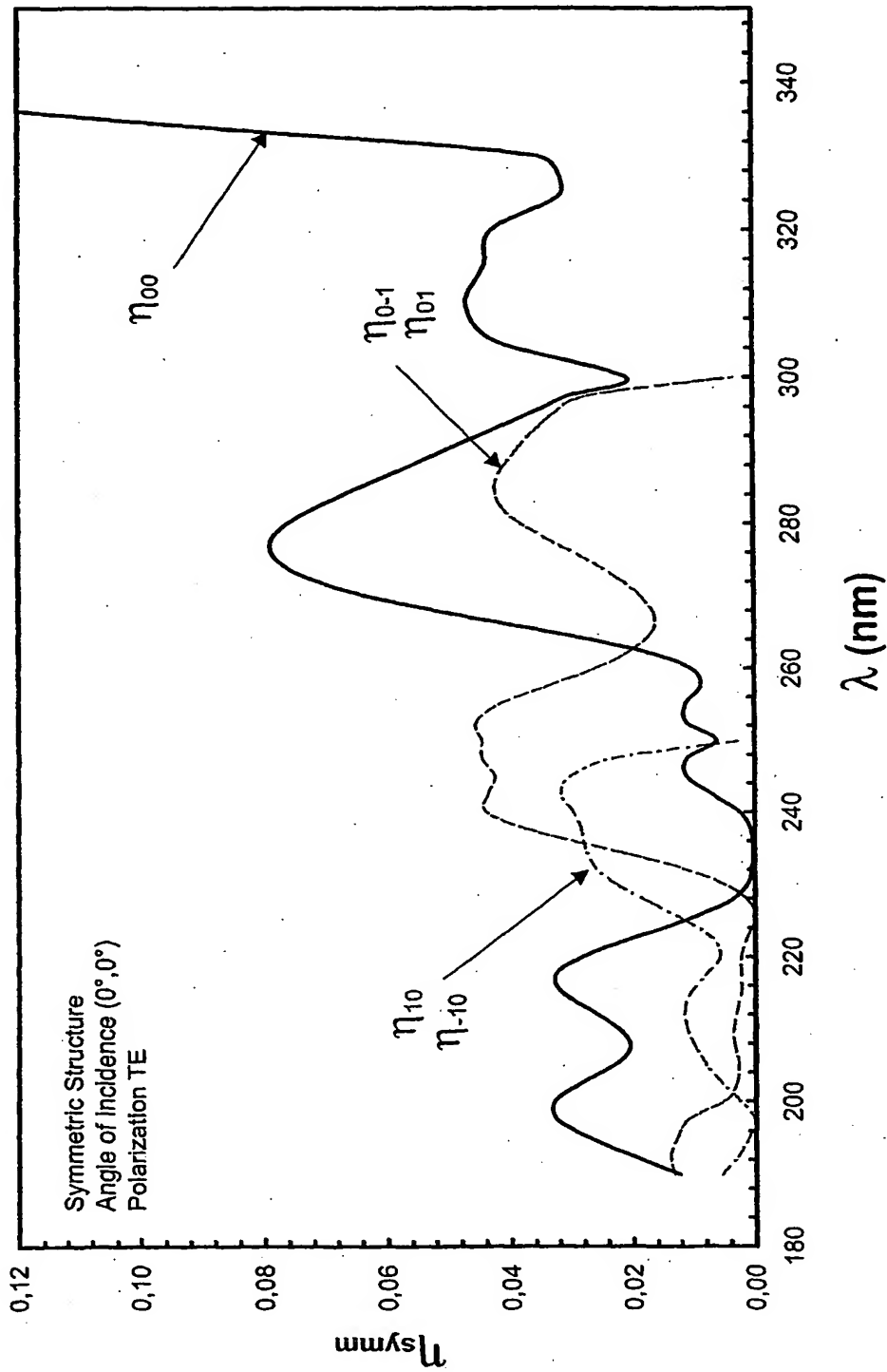


Fig. 4

6/18

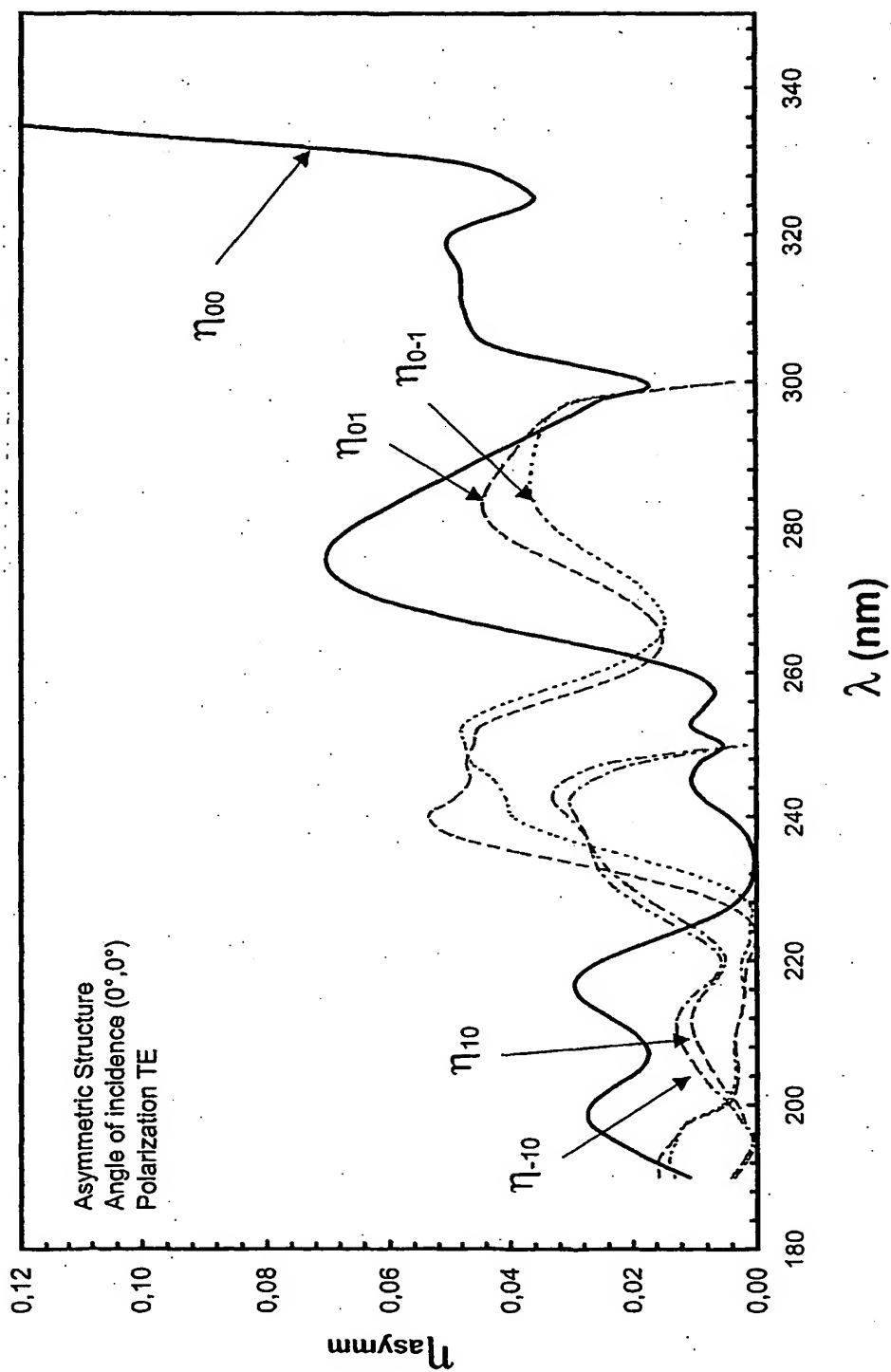


Fig. 5

7/18

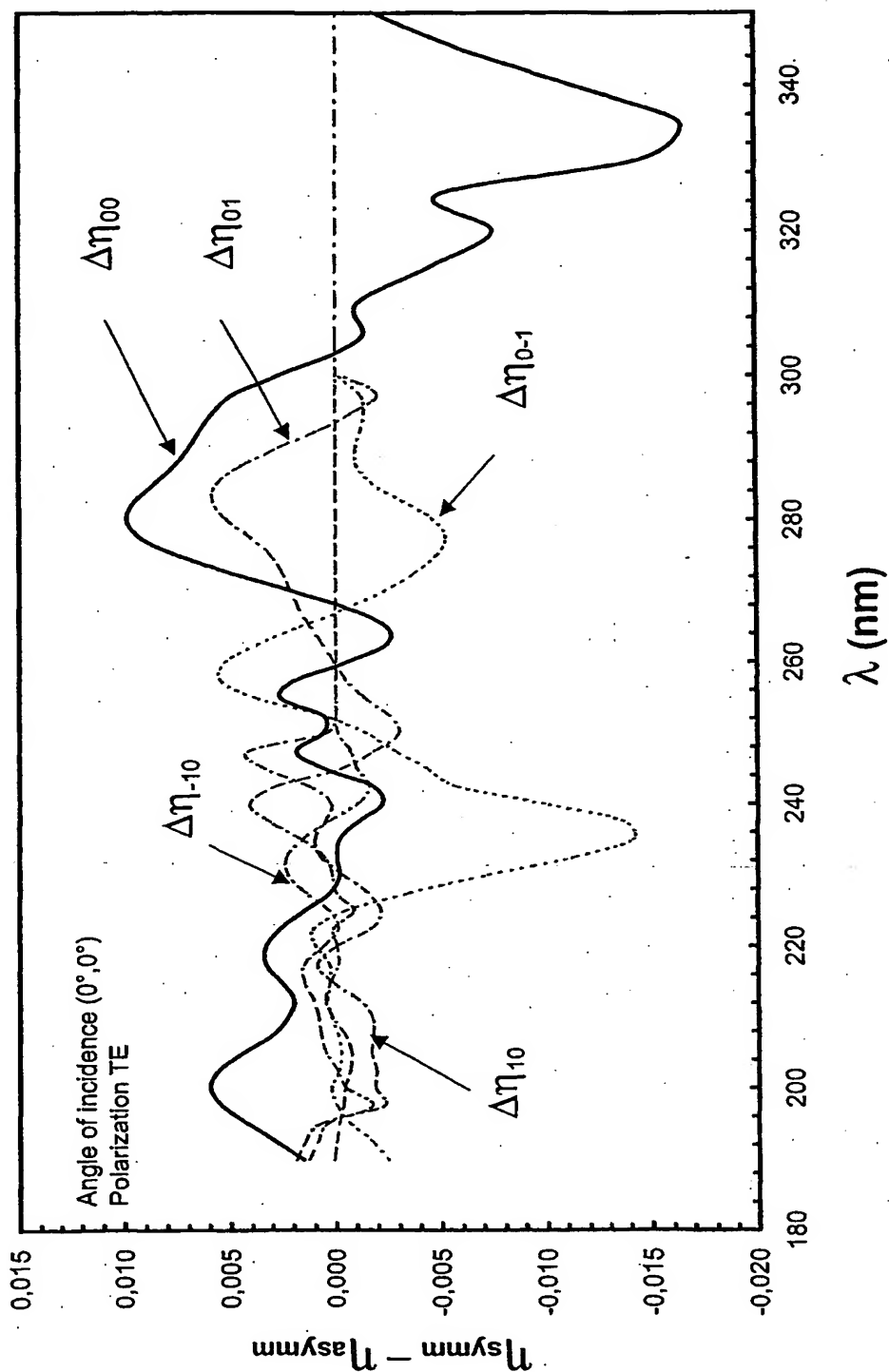


Fig. 6

8/18

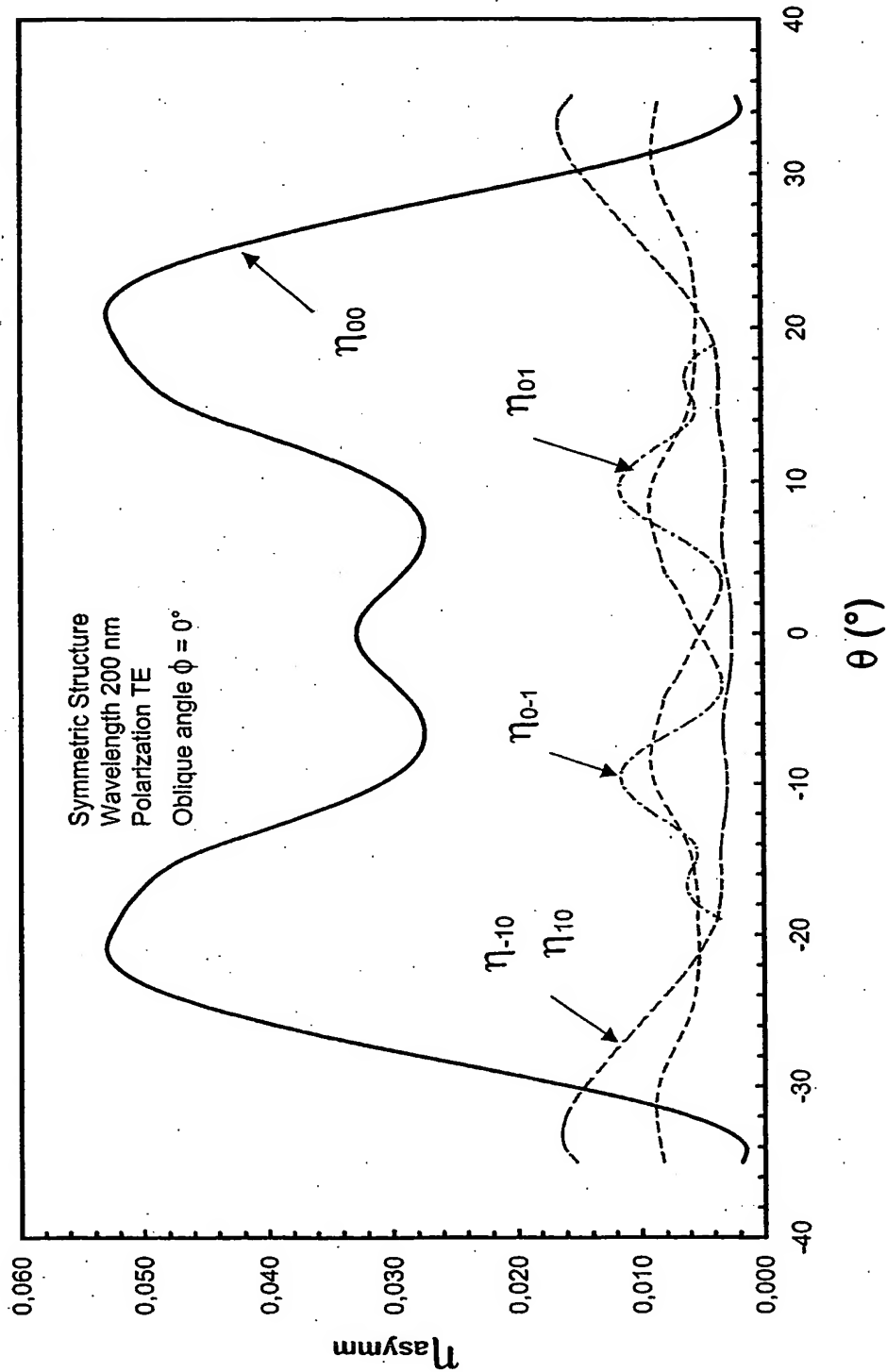
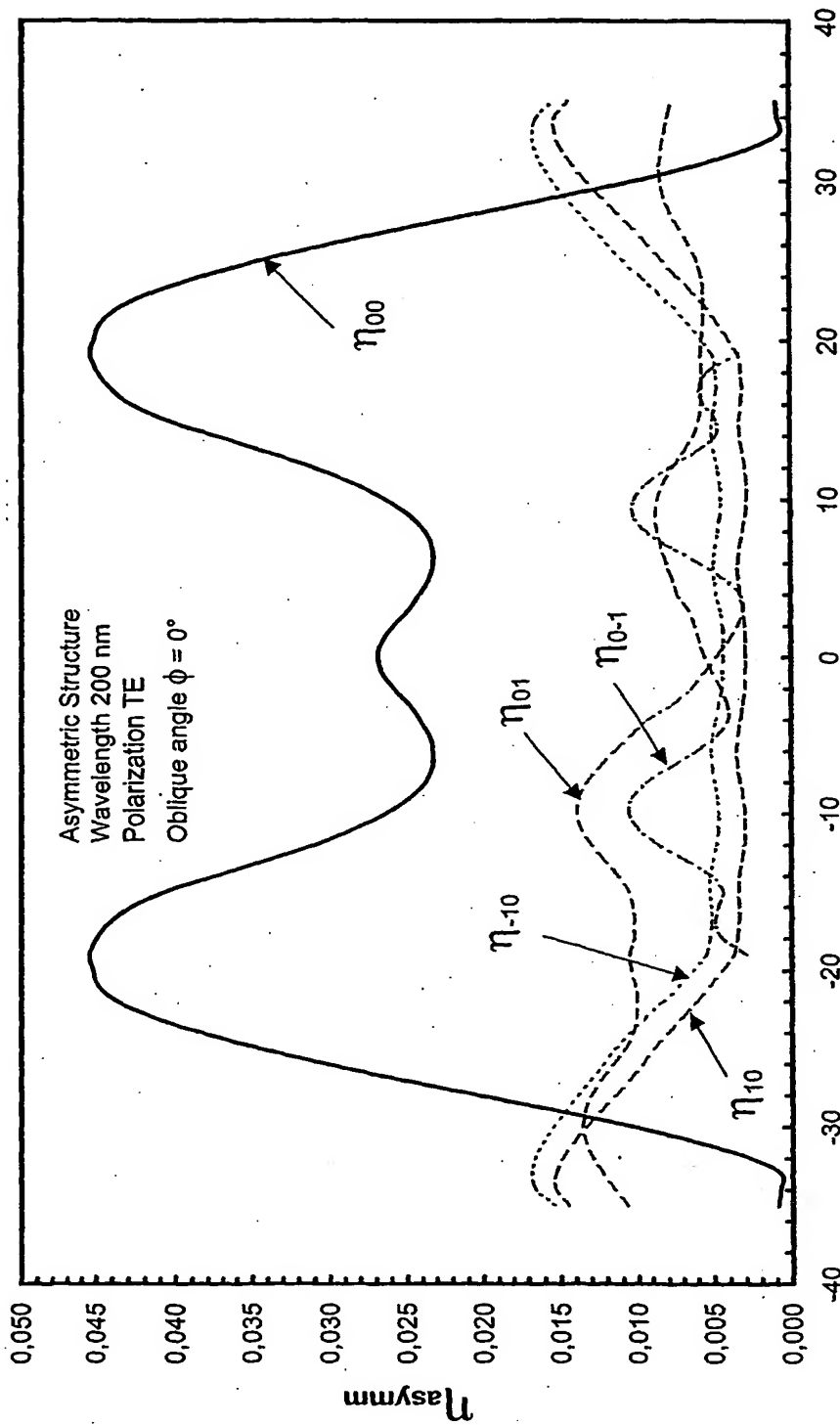


Fig. 7

9/18



θ ($^\circ$)

Fig. 8

10/18

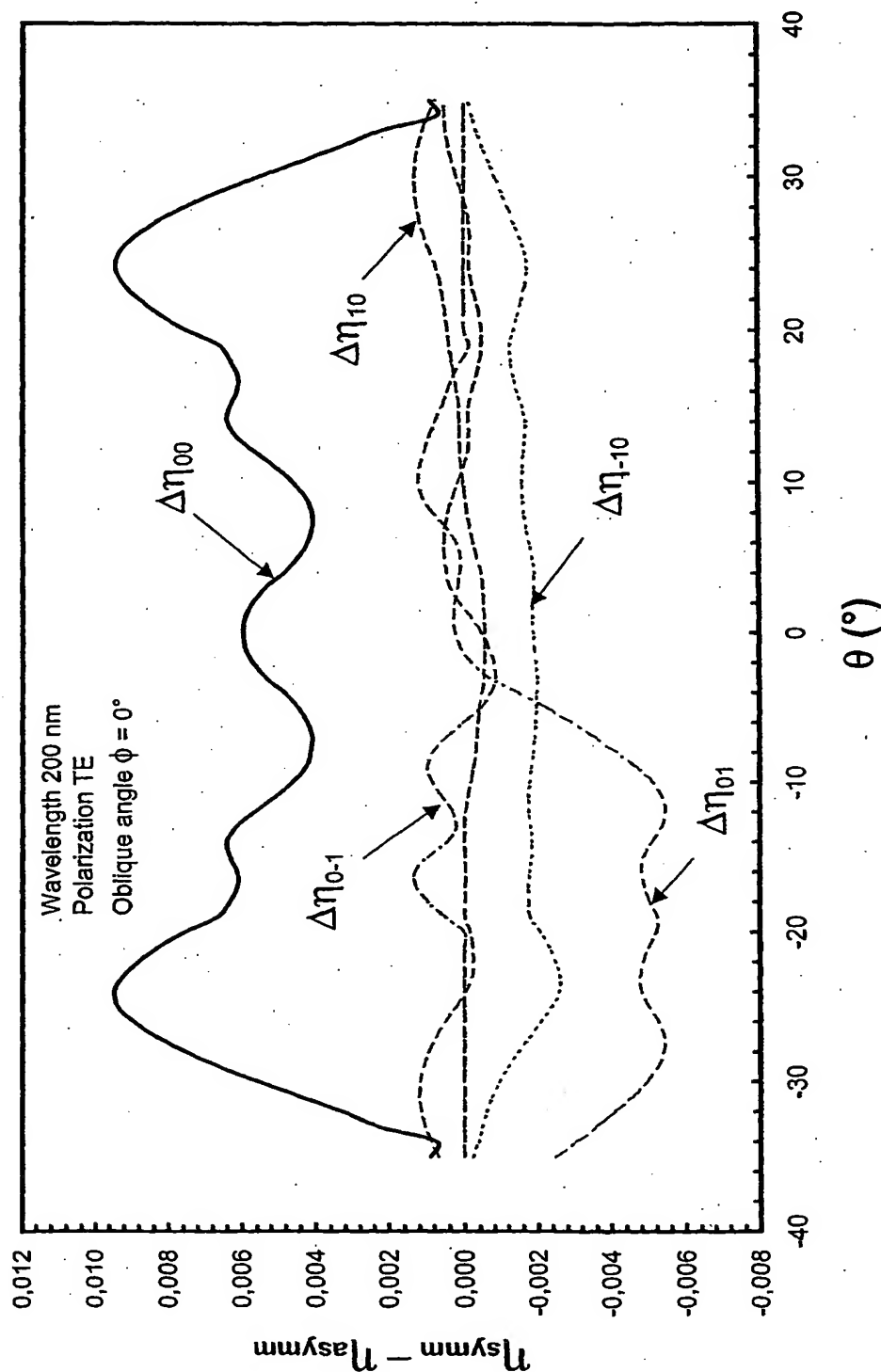


Fig. 9

11/18

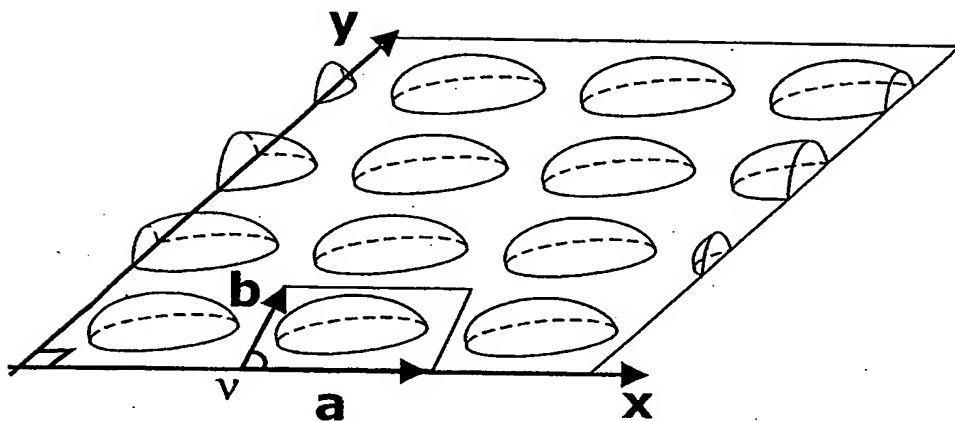


Fig. 10a

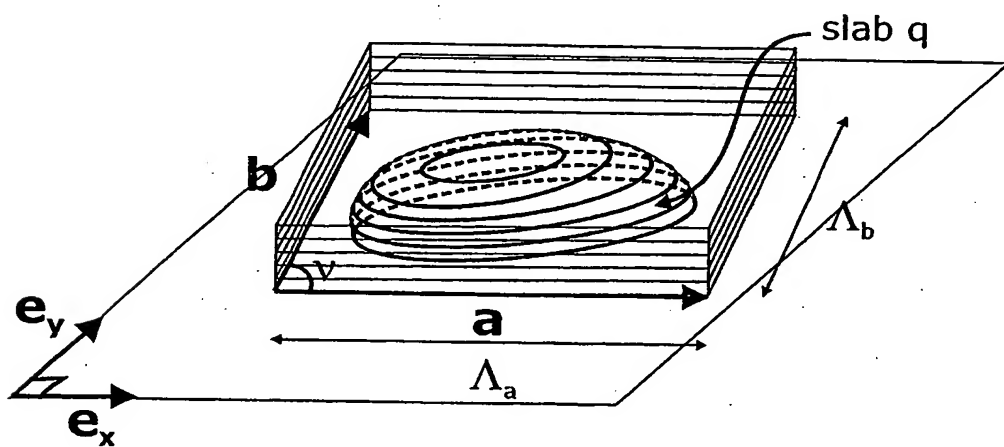


Fig. 10b

12/18

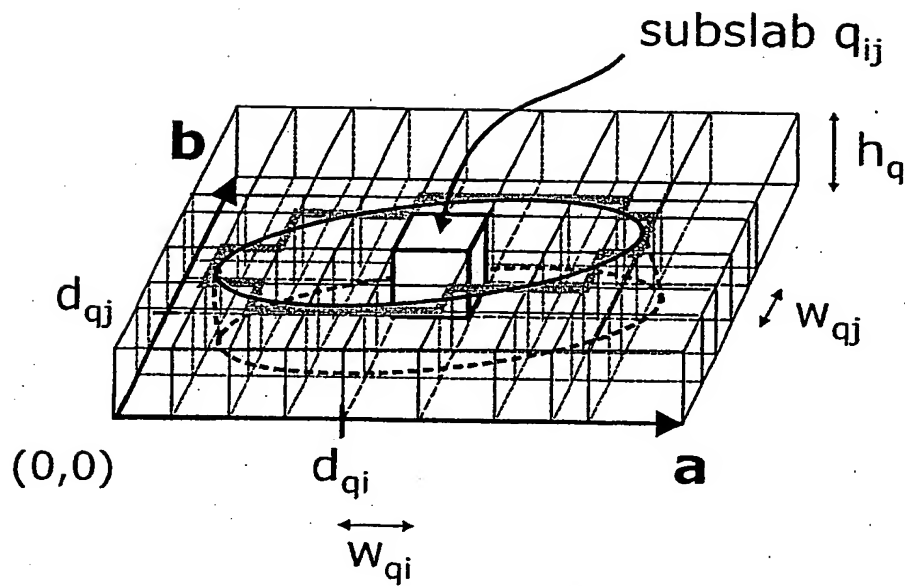


Fig. 10c

13/18

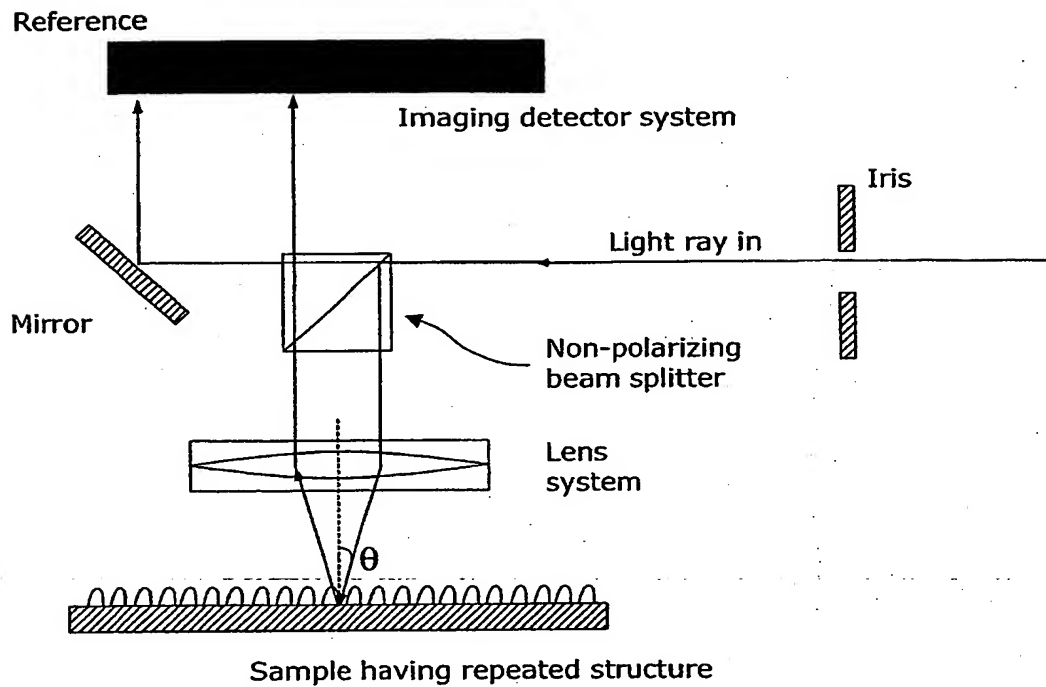


Fig. 11

14/18

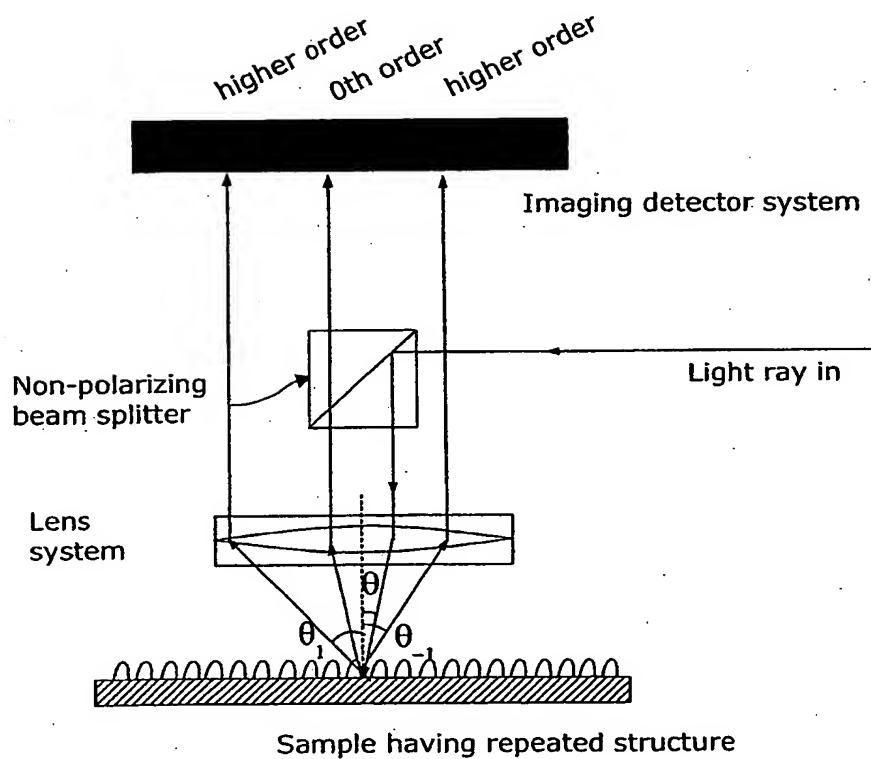


Fig. 12

15/18

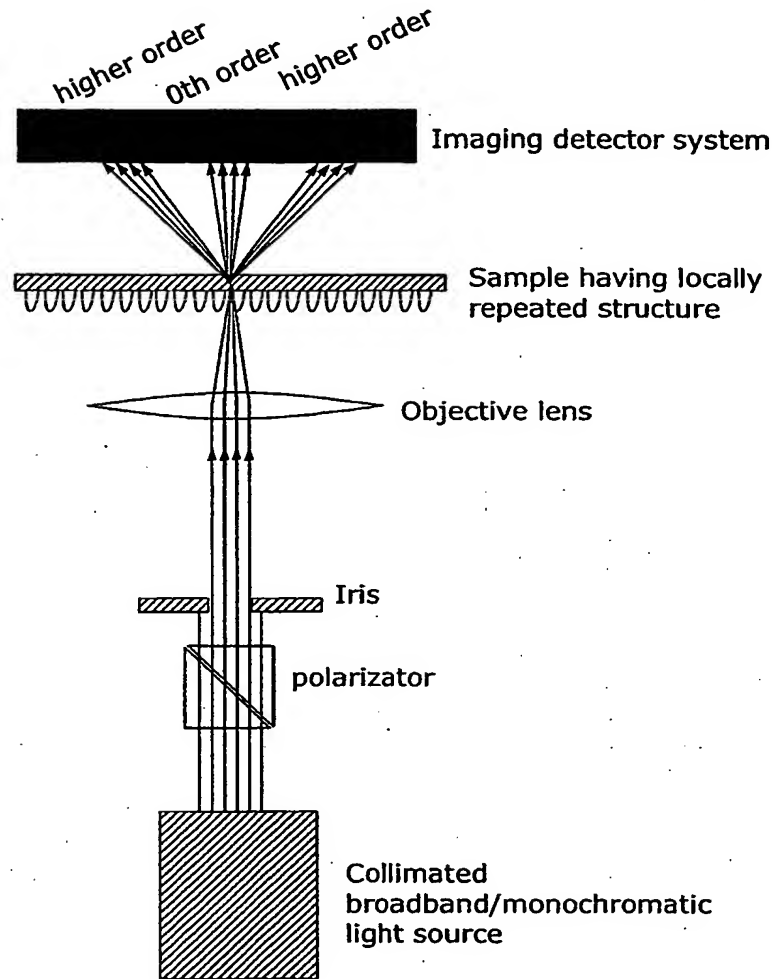


Fig. 13

16/18

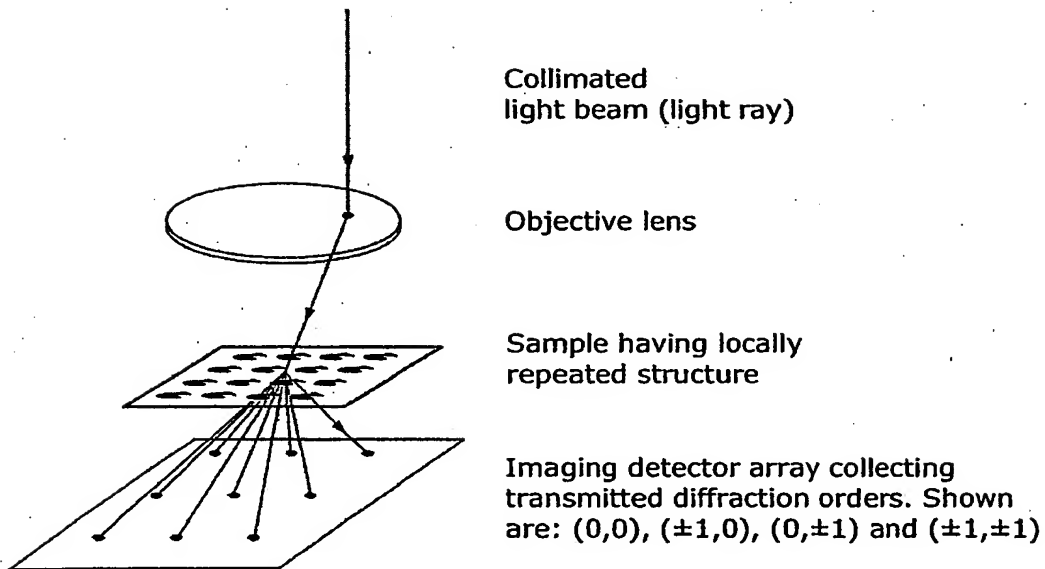


Fig. 14

17/18

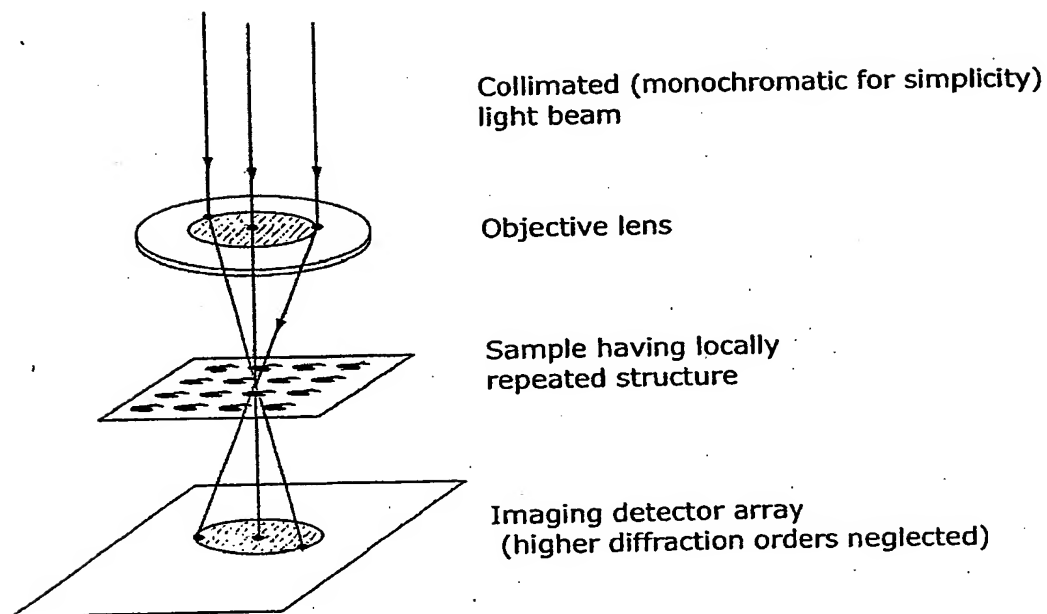


Fig. 15

18/18

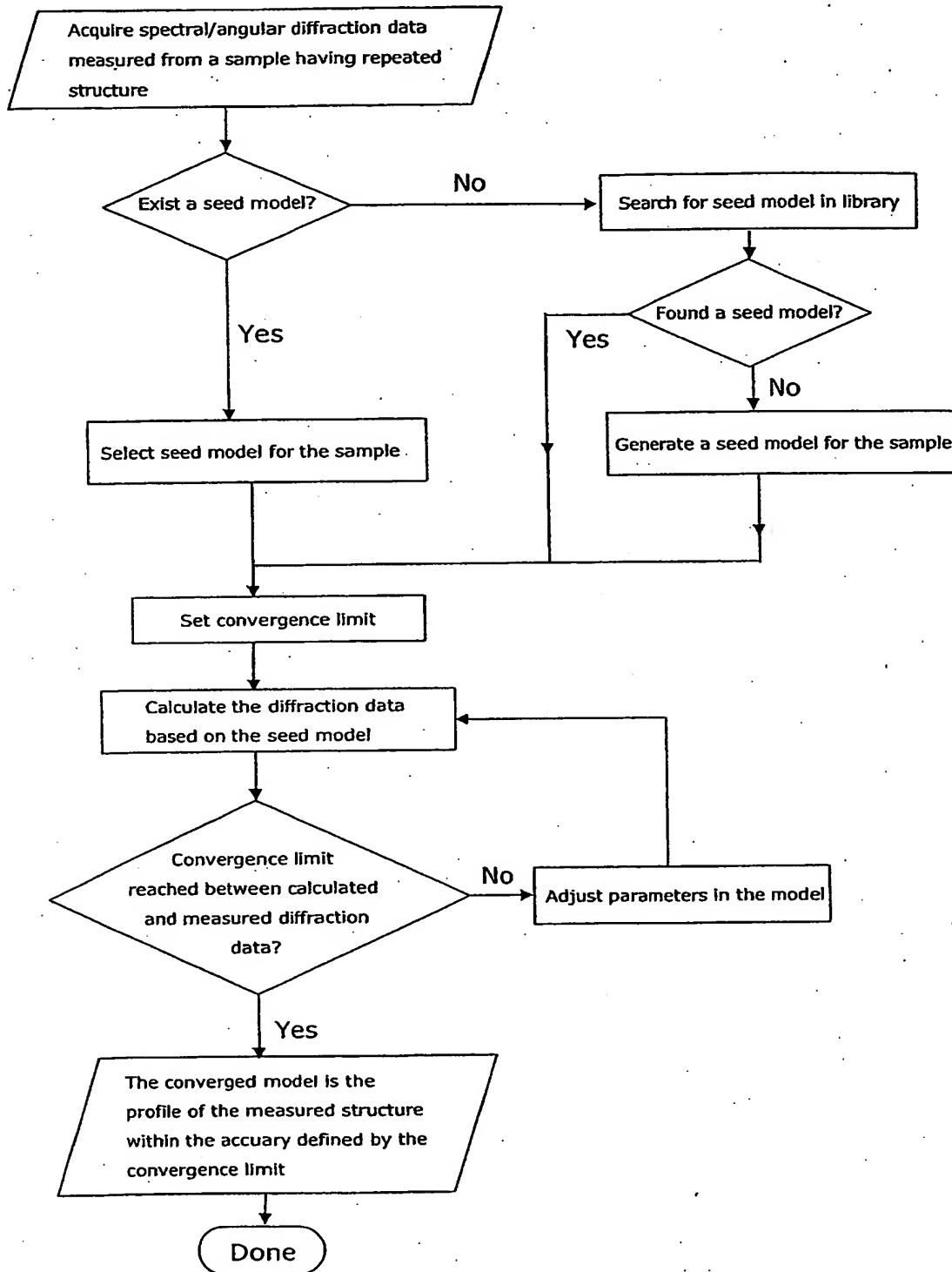


Fig. 16